

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: December 1, 2005

Inspector: Brian Sakidovitch

Location: Norwalk Substation Expansion

Storm/

Rain Event: Approximately 0.88- 1.49" of rain fell over 11/29-11/30 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<ul style="list-style-type: none"> - Significant portions of the site have been paved, including the access road from the Rt. 7 ramp and around the GIS Building. 12/01/05 - New sediment was noted in the catch basin near the Route 7 ramp. This inlet receives a lot of off-site stormwater, and erosion is occurring here. 12/01/05. 	<ul style="list-style-type: none"> - None at this time. 12/01/05 -The area should no longer be affected by any onsite sediment. The access road is paved and the swale is vegetated The silt fence should be removed. 12/01/05.
Foundation construction	<ul style="list-style-type: none"> -Work continues on steel structures to the north and northwest of the yard between the retaining wall and the bike path.12/1/05 - Excavation and backfill work at the northwest corner of the GIS building is complete as the area has been paved. 12/1/05 - The topsoil stockpile remains in the adjacent yard area. 12/01/05. -Clean up activities associated with the 345 kV Turning Structure work are complete and a portion of the river is flowing through here. 11/10-12/01/05. - Some work continues at the 	<ul style="list-style-type: none"> -None at this time. 12/01/05. -None at this time. 12/01/05. - The stockpile is contained well within the yard. 12/01/05. -It should be confirmed that all grades were met as proposed and temporarily disturbed areas are back to their original grades. 11/10-12/01/05. - Continue to maintain erosion controls adjacent to the river here.12/01/05

Areas of Inspection	Observation	Recommended Action
	northern portion of the site near the ROW. 12/01/05	
Erosion and Sediment Controls	- The catch basin at the southwest corner of the GIS building is now surrounded by pavement but confirm the basin was cleaned of sediment 12/01/05.	- Need to confirm whether the catch basin has been cleaned out. 12/01/05.
Erosion and Sediment Controls continued (includes inspection within 24 hours of a storm event)	<p>- Sedimentation from the access road off the Rt. 7 ramp was noted in the vegetated perimeter swale, but it did not leave the site. 9/21/05-12/01/05.</p> <p>-The constructed overflow channel was working appropriately and fairly high flow at the time of inspection. 12/01/05.</p> <p>- The natural channel was flooded at the time of inspection and the water was clear, with no signs of sediment. Hay mulch has been applied to the disturbed slopes where some grass growth was noted. 11/23-12/01/05.</p> <p>- The topsoil stockpile remains in the yard near the GIS building but it is well contained. 12/01/05.</p> <p>- All access drive areas were paved, eliminating some potential sources of sediment. 12/01/05</p>	<p>- Sedimentation and gravel remain contained within the swale. The access road has been paved which should remove the source of any additional accumulation. 12/01/05.</p> <p>- Continue to monitor. Determine if sediment accumulation from the work area is an issue at lower flow. 12/01/05.</p> <p>- It should be confirmed that the channel is at original grades and that no erosion or sedimentation is occurring within the overflow channel. 11/10-12/01/05.</p> <p>- None at this time. 12/01/05.</p> <p>- Monitor stormwater flow and drainage patterns on the pavement when possible. Watch for any erosive flows off site. 12/1/05</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>-The 345kV work area has been restored and mulch has been applied to the side slopes. 11/10-12/01/05</p> <p>-Water was flowing clear in both the natural and constructed overflow channel. 12/01/05.</p>	- Continue to remove any loose sediment due to the project if noted in the channel. 12/01/05.

Areas of Inspection	Observation	Recommended Action
State species of concern, threatened and endangered species	- No species of concern are located in this area of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	-No additional clearing is needed at this time. 12/01/05	- Clearing was limited to what is necessary and it will continue to be monitored. 12/01/05
Dewatering	-Dewatering was not observed during this inspection. 12/01/05.	-None at this time. 12/01/05.
Blasting	- No blasting is occurring on site at this time and it is not anticipated to be necessary.	- None at this time.
Spills and Material Storage	- No drips or leaks were noted on the site at the time of inspection. Pavement will keep most future leaks from seeping into the ground. 12/01/05.	<p>In general:</p> <ul style="list-style-type: none"> - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. - The contractors should remain vigilant about securing and handling fuel and all other material containers due to the sensitivity of the area. - Report spills to the office immediately, even if they are being controlled. - Take care not to get carried away and to be vigilant when refueling. - All fuels and agents not in use should be covered and stored in the sheds and trailers before leaving for the day.
Additional Observations	-Most of the substation has been paved with the exception of the electrified yard and the area to the north of the GIS building.	

Next likely scheduled inspection:

Thursday, December 8, 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate

and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature: Diana Walden for Brian Sakidovitch

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Date: December 1, 2005

Inspector: Don Ukers

Location: Plumtree Substation Expansion, Bethel

Storm/

Rain Event: Approximately 0.88- 1.49" of rain fell over 11/29-11/30 as reported by NOAA

Areas of Inspection	Observation	Recommended Action
Access Roads	- No new access roads have been constructed at this time but soil test borings had occurred on the driveway to the substation in previous weeks. 12/01/05	- Take care not to let accumulated soil from the borings enter the wetland swales adjacent to the driveway. 11/2-12/01/05
Foundation construction	-The remaining work is mostly electrical and within the control house.12/01/05. -No further civil or earth disturbing work was noted on site at this time and trailers are gone. 12/01/05.	- The areas are all contained at this time.12/01/05 - Open excavations were not observed at this time. 12/01/05.
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- Although no silt fence is in place, the perimeter stone berm continues to work well to control the yard even with the significant rain. 12/01/05.	-All stockpiles are well-contained and the berm is working effectively at this time. 12/01/05.
	- The small remaining piles of sand/soil are not covered in plastic but are well within the site. 3/2-12/01/05 - A small stockpile remains adjacent to the slab but was well within the site. 12/01/05.	-Continue to monitor status and cover stockpiles with plastic if necessary. 3/2-12/01/05.

Areas of Inspection	Observation	Recommended Action
Inland Wetland and Watercourse encroachment and mitigation	- Wetlands are located around the outskirts of the substation yard. The work within the substation yard has caused no observed sedimentation. 12/01/05.	- The stone berm around the perimeter of the yard continues to prevent sedimentation and water from leaving the site and getting to the wetland edge. 12/01/05.
State species of concern, threatened and endangered species	-The sand pile has been surrounded with safety fence but there seems to be little evidence of a valid nest at this point. 8/19-12/01/05. - The pile may be removed when necessary. 9/15-12/01/05.	- Everyone at the substation also remains aware and will move machinery carefully in case the individual turtle returns in the spring. The nest does not appear to be valid at this time. 12/01/05.
Vegetative clearing limits (including trees to save or danger trees noted)	- No vegetation outside of the substation yard will need to be cleared during the expansion work.	- N/A
Dewatering	- Dewatering was not observed during the inspection. 12/01/05.	- None at this time. 12/01/05.
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills and Material Storage	- No leaks or drips had been noted at the site at the time of inspection. 12/01/05.	- The contractors should remain vigilant about securing and handling fuel containers. - Keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. Check equipment status on a regular basis. - Report spills to the office immediately, even if they are being controlled.
Additional Observations	- Following completion of a few future scheduled activities, this substation can be removed from the inspection route. 12/01/05.	

Next likely scheduled inspection:

Thursday, December 8 , 2005

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate

and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Inspector's Signature: Diana Walden for Don Ukers



Norwalk Substation: View of the 345kV Turning Structure and the restored portion of the natural overflow channel. 12/01/05.

Views of the structures being installed in the northwest portion of the yard. 12/01/05.





Paving has occurred over significant portions of the site. Photo on the left shows the area adjacent to the GIS building where excavation work is complete. Photo on the right shows the access road leading around the yard. 12/01/05.



Plumtree Substation: Most substation related work here is complete. 12/01/05.